

CS101 updated Midterm Past Paper MCQs Questions From 2020 to date		
Created by APEX Team		

What are the three main parts of a CPU?

- A) Input, Output, Storage
- B) ALU, RAM, Control Unit
- C) Arithmetic/Logic Unit, Control Unit, Register Unit
- D) CPU Core, Cache, Main Memory

Correct Answer: C

What type of registers are discussed in this paragraph?

- A) Special-purpose registers
- B) Temporary registers
- C) General-purpose registers
- D) Control registers

Correct Answer: C

How does the CPU perform operations on data stored in main memory?

- A) It directly operates on the memory cells.
- B) It transfers the data to general-purpose registers.
- C) It communicates with the storage devices.
- D) It uses the control unit to modify the memory cells.

Correct Answer: B

What connects the CPU and main memory for data transfer?

- A) Wires
- B) Buses
- C) Cables
- D) Fiber optics

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Correct Answer: B

How does the CPU read data from main memory?

- A) By directly accessing the memory cells
- B) By sending an electronic signal to the memory circuitry
- C) By transferring the data to the control unit
- D) By activating the arithmetic/logic unit

Correct Answer: B

What is the term for the process of changing the contents of a computer's memory to modify its operation?

- A) Rewiring
- B) Rebooting
- C) Reprogramming
- D) Refactoring

Correct Answer: C

What concept allows programs to be encoded and stored in main memory, making them changeable without rewiring the CPU?

- A) Stored-program concept
- B) Programmatic memory
- C) CPU reconfiguration
- D) Memory reprogramming

Correct Answer: A

What is the collection of instructions encoded as bit patterns called?

- A) Bytecode
- B) Assembly language
- C) Machine language

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D) Binary code

Correct Answer: C

Which philosophy of CPU architecture favors a minimal set of machine instructions?

A) Reduced Instruction Set Computer (RISC)

B) Complex Instruction Set Computer (CISC)

C) Minimalistic Instruction Set Computer (MISC)

D) Basic Instruction Set Computer (BISC)

Correct Answer: A

Which architecture is known for its efficiency, speed, and lower manufacturing cost?

A) RISC

B) CISC

C) MISC

D) BISC

Correct Answer: A

Which type of processors are used in PCs, such as Intel processors?

A) RISC

B) CISC

C) MISC

D) BISC

Correct Answer: B

What company developed RISC-based processors that are used in Apple Macintosh computers?

A) IBM

B) Intel

C) Motorola

D) Apple

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Correct Answer: A

Which company is known for designing RISC architecture for low power consumption?

- A) Intel
- B) AMD
- C) ARM Holdings
- D) Qualcomm

Correct Answer: C

How are a machine's instructions categorized?

- A) By their complexity
- B) By their execution speed
- C) By their memory usage
- D) Into three groups

Correct Answer: D

What term is more appropriate to describe the actions of the data transfer group of instructions?

- A) Move
- B) Copy
- C) Delete
- D) Swap

Correct Answer: B

What is a request to fill a general-purpose register with the contents of a memory cell called?

- A) Clone instruction
- B) Transfer instruction
- C) LOAD instruction
- D) STORE instruction

Correct Answer: C

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Which group of instructions handles the input/output activities of the machine?

- A) Data transfer group
- B) Arithmetic/Logic group
- C) Control group
- D) I/O group

Correct Answer: D

What does the arithmetic/logic group of instructions instruct the control unit to do?

- A) Request data transfer
- B) Perform arithmetic operations
- C) Execute program instructions
- D) Control data flow

Correct Answer: B

What do the control group instructions primarily direct?

- A) Data manipulation
- B) Input/Output operations
- C) Program execution
- D) Data transfer

Correct Answer: C

In which step of Figure 42 is a control group instruction executed?

- A) Step 1
- B) Step 2
- C) Step 3
- D) Step 5

Correct Answer: D

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